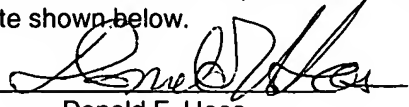


IPW

PATENT  
TH2229 (US)  
DFH:EM

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Donald F. Haas  
Date: May 11, 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of )  
)  
PAUL M. AYOUB, STEVEN C. SUMROW, )  
HENK DIRKZWAGER, and )  
BRENDAN D. MURRAY )  
)  
Serial No. 10/772,023 )  
)  
Filed February 4, 2004 )  
)  
METHODS OF PREPARING BRANCHED )  
ALKYL AROMATIC HYDROCARBONS )  
\_\_\_\_\_ )

May 11, 2004

COMMISSIONER FOR PATENTS  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97

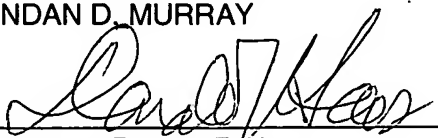
It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. Full text copies of the relevant documents are enclosed.

For the foreign language documents, an English language translation is provided.

The Examiner is requested to indicate consideration of this art on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicant.

Respectfully submitted,

PAUL M. AYOUB, STEVEN C. SUMROW,  
HENK DIRKZWAGER, and  
BRENDAN D. MURRAY

By   
Attorney, Donald F. Haas  
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P.O. Box 2463  
Houston, Texas 77252-2463

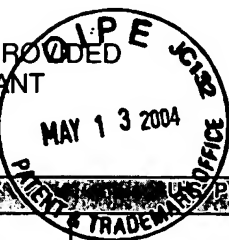
FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
TH2229 (US)APPLICATION NUMBER  
10/772,023LIST OF INFORMATION PROVIDED  
BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
P. M. Ayoub et al.FILING DATE  
February 4, 2004

GROUP ART UNIT



## REFERENCE DESIGNATION

## PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Patentee	Class	Subclass	Filing Date If Appropriate
AA	3,484,498	12/16/69	Berg	260	671	
AB	5,196,624	3/23/93	Threlkel et al.	585	513	
AC	5,196,625	3/23/93	Threlkel et al.	585	513	
AD	5,849,972	12/15/98	Vicari et al.	585	531	
AE	6,111,158	6,111,158	Marinangeli et al.	585	467	
AF	6,187,981	2/13/01	Marinangeli et al.	585	323	
AG						
AH						
AI						

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subclass	Translation	
						Yes	No
AL	199 15 357 A1	4/6/99	Germany	C07C	2/08	X	
AM	198 59 911 A1	12/23/98	Germany	C07C	11/00	X	
AN	199 10 370 A1	3/9/99	Germany	C07C	11/02	X	
AO	199 12 418 A1	3/19/99	Germany	C07C	29/132	X	

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

AR	Nielsen et al., "Biodegradation of Coproducts of Commercial Linear Alkylbenzene Sulfonate," Environmental Science and Technology, 1997, 31:3397-3404
AS	
AT	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
TH2229 (US)APPLICATION NUMBER  
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APPLICANT  
P. M. Ayoub et al.FILING DATE  
February 4, 2004

GROUP ART UNIT

## REFERENCE DESIGNATION

Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date If Appropriate
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	BJ	100 26 906 A1	5/31/00	Germany	C07C	2/08	X	
	BK	100 15 002 A1	3/25/00	Germany	C07C	2/08	X	
	BL	199 10 103 A1	3/8/99	Germany	C07C	2/08	X	
	BM	199 57 173 A1	11/27/99	Germany	B01J	27/053	X	
	BN	WO 99/25668	5/27/99	World	C07C	2/10	X	
	BO	WO 00/69795	11/23/00	World	C07C	2/08	X	

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	BR	
	BS	
	BT	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
2. This is not a representation that a search has been made.

5/11/04

SERIAL NO: 10/772,023

CASE NO.: TH 2229 (US)

FILING DATE: 2/4/04

DUE DATE:

The stamp of the U.S. Patent Office hereupon, may be taken as acknowledging receipt in the above-identified application of the following:

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR  
1.56 AND 1.97 W/COM

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